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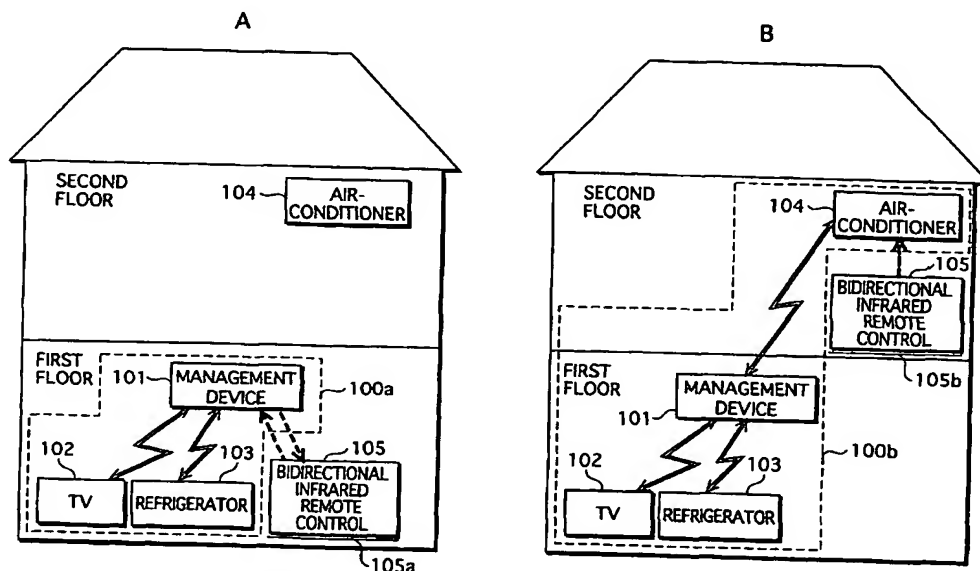
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(54) Title: SECURE AUTHENTICATION IN A WIRELESS HOME NETWORK



(57) Abstract: A common key is obtained from a management device 101 by operating a bidirectional infrared remote control 105 at a location 105a via an infrared communication, the management device 101 being connected to a wireless network. The common key is transmitted to an air-conditioner 104 from bidirectional infrared remote control 105, after carrying the bidirectional infrared remote control 105 to a location 105b where it is possible that the bidirectional infrared remote control 105 and air-conditioner 104 communicate via the infrared communication.

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP2004/008056

A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 H04L12/28 H04W3/024

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04L H04W H04Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A Y	US 2003/013440 A1 (TAKATORI SUNAO ET AL) 16 January 2003 (2003-01-16) paragraph '0001! - paragraph '0014! abstract; figures 1,12	5  19 1-4, 6-18, 20-22
Y	STEPHEN R. HANNA, SUN MICROSYSTEMS, INC.: "Configuring Security Parameters in Small Devices" INTERNET DRAFT, 1 January 2002 (2002-01-01), pages 1-11, XP015001114 page 1 - page 2 page 7	1-4, 6-18, 20-22

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☒ Further documents are listed in the continuation of box C.

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	MOULY M ET AL: "MOBILITY AND SECURITY MANAGEMENT" GSM SYSTEM FOR MOBILE COMMUNICATIONS, LASSAY-LES-CHATEAUX, EUROPE MEDIA, FR, 1993, pages 432-498, XP000860007 page 477 - page 492	1,4-9, 12,13, 20-22
A	LEONG S S ET AL: "DESIGN AND IMPLEMENTATION OF AN AUTHENTICATION PROTOCOL FOR HOME AUTOMATION SYSTEMS" IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, IEEE INC. NEW YORK, US, vol. 44, no. 3, August 1998 (1998-08), pages 911-921, XP000851599 ISSN: 0098-3063 page 911 - page 912	7-9

# INTERNATIONAL SEARCH REPORT

Information on patent family members

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